

Introduction

Purpose of CTU-Buddy website:

Your objective is to create a comprehensive and interactive website that enhances the learning experience for students. CTU-Buddy will consist of various pages, each with specific features and functionalities.

Project Scope

The goal of the CTU-Buddy project is to create an extensive and engaging website specifically for students at City Technical University (CTU). The website will act as a virtual center for students, offering all the tools and resources they need to stay on top of their classes, participate in forums, exchange learning materials, and stay in touch with other students and faculty members. A user-friendly platform that improves CTU's educational experience is what the project will produce.

Team members with Roles and Responsibilities

Rhyno Bohta(Project coordinator)

A project coordinator is responsible for organizing and managing projects to ensure they are completed on time, within budget, and to the required quality standards. They liaise with stakeholders, manage resources, and track project progress to meet organizational goals.

Corne Carmichael(Web project coordinator)

A Web Project Coordinator manages and organizes web projects, ensuring smooth communication between stakeholders, developers, and designers. They track the project's progress, handle scheduling, manage resources, and ensure deadlines are met. They also may assist in defining project scope, goals, and deliverables.

Jeffrey Putter(Security Analyst)

An information security analyst is responsible for safeguarding an organization's computer systems and networks against cyber threats and unauthorized access. These professionals uphold the integrity, confidentiality, and availability of sensitive information by conducting comprehensive risk assessments. Through these assessments, they identify potential vulnerabilities in the organization's IT infrastructure and enact measures to mitigate these risks.

Goals

Create an eye-catching and interactive website that acts as a focal point for students.

Offer a timetable management solution that is easy to use.

Encourage group learning by using a discussion forum.

Permit the safe downloading and sharing of instructional materials.

Through educational pages, users and the CTU-Buddy platform can build a relationship and trust.

Use responsive design to guarantee smooth operation on various devices.

Project Success Requirements:

a responsive website that satisfies all of the specifications and is completely functional.

Functional Requirements

1. Home Page
2. Timetable Page
3. Discussion Page
4. Share Resources Page
5. About Us Page
6. Contact Us Page

Home Page

User Needs:

Easy access to key functions and details regarding the CTU-Buddy system.

Simple access to additional pages (About Us, Contact Us, Discussion, Schedule, and Share Resources).

Timetable Page

User Needs:

Their weekly calendar is shown clearly, including the days, dates, hours, and courses. Make sure various screen sizes and devices can access the schedule.

Discussion Page

User Needs:

Posing questions, responding to peers, and following threaded discussions are all possible. the ability to view user profiles and identify conversation participants. Tools for flagging topics for evaluation or reporting offensive content.

Share Resources Page

User Needs:

The ability to obtain and upload items offered by others, including instructional PDFs. the ability to browse materials by category and conduct targeted searches for them. Secure download and upload procedures to stop unwanted access.

About Us Page

User Needs:

Detailed information on the development team, goal, vision, and purpose of CTU-Buddy.

Contact Us Page

User Needs:

Easy form to send questions, comments, or recommendations. A map that indicates where the CTU campus is.

Project Purpose

Introduction

The goal of the CTU-Buddy educational system is to give students at City Technical University (CTU) access to an extensive and engaging online learning environment. The system's goal is to combine different teaching resources and functionalities into a single, intuitive website that helps administrators, teachers, and students with their academic work.

Purpose

The main goal of the CTU-Buddy system is to establish a centralized digital space where instructors and students may effectively manage their class schedules, participate in conversations, exchange educational materials, and obtain vital university information. The platform is designed to:

- Enhance Learning Experience
- Facilitate Communication
- Organize Academic Information
- Promote Accessibility

Benefits

1. Improved Academic Management

2. Enhanced Collaboration
3. Increased Engagement
4. Streamlined Communication

Improved Academic Management

Students may use a single platform to obtain all of the information they need and manage their schedules more efficiently.

Enhanced Collaboration

Peer-to-peer support and a collaborative learning environment are promoted by the Share Resources function and Discussion page.

Increased Engagement

Both students and teachers are encouraged to actively participate and engage with the Home page and its interactive aspects.

Streamlined Communication

A simple method for users to contact the university or offer comments on the system is available on the Contact Us page.

Target Audience

1. Students
2. Educators
3. Administrators

Students

Discussion boards, resource sharing, and schedule management will be very helpful to the main users.

Educators

Individuals who will evaluate shared materials, take part in conversations, and offer academic assistance.

Administrators

Users in charge of overseeing content management, keeping an eye on system performance, and guaranteeing the platform's general quality.

System Features/Non-Functional Requirements

System Features

1. Home Page
2. Timetable Page
3. Discussion Page
4. Share Resources Page
5. About Us Page
6. Contact Us Page

Home Page

Highlights the main features of CTU-Buddy using pictures, movies, and animations. links to all other pages (Timetable, Discussion, Share Resources, About Us, Contact Us) are included in the footer. Interactive components to enthrall viewers and improve the experience.

Timetable page

Presents the schedules of the students using HTML tables, which include the dates, hours, modules, and days of the week. Makes that the schedule is readable and displays well on various screens and devices. makes it simple for users to see and engage with their weekly calendars.

Discussion Page

Encourages the threaded posting of questions and answers to promote group learning. shows user profiles to facilitate managing conversations and identifying contributions. contains resources to help moderators oversee and control conversations to guarantee civil exchanges

Share Resources Page

Enables users to submit PDF files for use as teaching tools. provide choices for classifying resources to make finding and using them simpler. gives visitors the option to look for certain materials using keywords or categories. Resources can be downloaded by users for offline use.

About Us Page

Gives comprehensive details on the goals, vision, and mission of CTU-Buddy. contains biographies and details on the CTU-Buddy development team.

Contact Us Page

Through a contact form, users may offer questions, recommendations, or comments. provides a map that indicates the location of the CTU campus to help people find the university.

Non-Functional Requirements

1. Performance
2. Usability
3. Reliability
4. Security
5. Compatibility

Performance

On a typical broadband connection, the webpage ought to load in three seconds. Up to 1,000 users should be supported by the system without noticeably degrading performance.

Usability

Clear navigation and accessibility features are essential for an intuitive and user-friendly design. The website needs to work well on different devices and offer a consistent user experience (desktops, tablets, smartphones).

Reliability

With a 99.9% uptime, consumers should experience as little disturbance as possible from the system. Instructive error messages should be displayed by the system, and mistakes should be handled tactfully to prevent crashes.

Security

Encryption should be used to safeguard sensitive user data, including contact information and resources that have been submitted. Before using some services, such as submitting resources or joining conversations, users must verify themselves. Put role-based access restriction into place to guarantee that users may only see and edit data that is pertinent to their roles.

Compatibility

Major online browsers such as Microsoft Edge, Mozilla Firefox, Safari, and Google Chrome should all be able to see the page. The website needs to operate flawlessly on desktop and mobile platforms.

System Features and Requirements

Project Planning

The group agreed on splitting the work between all of us so instead of having confusion with code that doesn't work or exist, we rather decided to have each person do a certain section or 2 that suited them. This is how the project planning went:

Static website with the following pages:

Home - Rhyno

Timetable - Jeff

Discussion - Rhyno

Share Resources - Jeff

About Us - Corne (HTML) Rhyno (CSS)

Contact Us - Corne (HTML) Rhyno (CSS)

While the project went on the group also decided it would be best if Corne did the Report with help from Jeff and Rhyno.